



>>Entry Name: **Chorionic gonadotropin**, 9CI, BAN, USAN

Synonym(s): Human chorionic gonadotropin. Choriogonadotrophin. Gonadotropin. Gonatropin. Antuitrin. Chorigon. Choriogonin. Choron. Chorulon. Follutein. Gonabion. Korotin. Pranturon. Pregnyl. Profasi. HCG

CAS Registry Number: 9002-61-3

General Statement: Gonadotropin is a glycoprotein with a molecular weight of approx. 38kDa and a carbohydrate content of 30%. The molecule consists of 2 peptide chains respectively 96 and 145 amino acid units long, both glycosylated

Biological Source: A glycoprotein hormone synth. by chorionic tissue of the placenta, and found in urine during pregnancy. Found also in body fluids of persons having trophoblastic disease or embryonic testicular or ovarian tumours

Biological Use/Importance: Gonad stimulating principle. Its antigens are being developed as vaccine contraceptives

Physical Description: Long-thin rods or needles (EtOH aq.)

Solubility: Sol. H₂O, glycerol, glycols. Insol. most org. solvs.

Other Data: Stable in dry form. Isoelectric point pH 3.2-3.3. Dil. aq. solns. lose their activity rapidly on storage at 0°, or by heating, or by acid or base treatment

Hazard & Toxicity: Human and exp. reprod. effects. Exp. teratogen

Sigma: C5297

References:

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